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The invention relates to a process for repairing coated substrate surfaces comprising the following successive steps:

- a) optionally preparing a blemished area to be repaired,
- b) providing a backing film coated on one side with an uncured or at least partially cured coating layer of a coating composition curable by means of high energy radiation,
- c) applying the backing film with its coated side onto the blemished area to be repaired,
- d) irradiating the coating applied in this manner onto the blemished area to be repaired with high energy radiation and
- e) removing the backing film, wherein the coating is irradiated through the backing film and/or after removing the backing film.